



LISTING OF CLAIMS

The following listing of claims will replace all prior versions, and listings of claims in the application:

1-5. (Canceled).

6. (Currently amended) ~~The~~An isolated nucleic acid molecule of claim 4, comprising a nucleotide sequence encoding a portion WW domain of a Pin1 polypeptide having substantially consisting of the same amino acid sequence as amino acids 5-43 of SEQ ID NO:2 or a functional fragment thereof that binds to NIMA, or a complement of the encoding nucleic acid molecule.

7. (Currently amended) The isolated nucleic acid molecule of claim 6, comprising a nucleotide sequence encoding a portion of a Pin1 polypeptide having substantially the same protein-protein interaction activity as amino acids 5-43 of SEQ ID NO:2 or the complement thereof.

8. (Canceled).

9. (Currently amended) The isolated nucleic acid molecule of claim 4~~claim 6~~, comprising the same nucleotide sequence as nucleotides 13-129 of SEQ ID NO:1 or a portion thereof that encodes the functional fragment, or a complement of either thereof.

10. (Currently amended) ~~An~~The isolated nucleic acid molecule of claim 6 comprising a nucleotide sequence substantially the same as consisting of nucleotides 13-129 of SEQ ID NO:1.

11. (Currently amended) ~~The~~An isolated nucleic acid molecule of claim 10, wherein said nucleotide sequence that selectively hybridizes to a nucleic acid sequence consisting of nucleotides 13-129 of SEQ ID NO:1 or the complement thereof.

12-19. (Cancelled).

20. (Currently amended) ~~The~~An isolated nucleic acid molecule of claim 18,
~~comprising a nucleotide sequence encoding a portion~~PPIase domain of a Pin1 polypeptide
~~having substantially the same amino acid sequence as~~consisting of amino acids 59-163 of SEQ
ID NO:2 or a functional fragment thereof having peptidyl prolyl isomerase activity, or a
complement of the nucleic acid molecule.

21. (Currently amended) The isolated nucleic acid molecule of claim 20,~~comprising~~
~~a nucleotide sequence encoding a portion of a Pin1 polypeptide having substantially the same~~
~~PPIase activity as~~amino acids 59-163 of SEQ ID NO:2 or the complement thereof.

22. (Cancelled).

23. (Currently amended) The isolated nucleic acid molecule of claim 18~~claim 20,~~
~~comprising the same nucleotide sequence as~~nucleotides 175-489 of SEQ ID NO:1 or a portion
thereof that encodes the functional fragment, or the complement of either thereof.

24. (Currently amended) ~~An~~The isolated nucleic acid molecule of claim 20
~~comprising a nucleotide sequence substantially the same as~~consisting of nucleotides 175-489 of
SEQ ID NO:1.

25. (Currently amended) ~~The~~An isolated nucleic acid molecule of claim 24, wherein
~~said nucleotide sequence that~~ selectively hybridizes to a sequence consisting of nucleotides
175-489 of SEQ ID NO:1 or the complement thereof.

26-30. (Cancelled).

31. (New) An isolated nucleic acid molecule encoding a fragment of a Pin1
polypeptide, which Pin1 polypeptide consists of amino acid residue 1-163 of SEQ ID NO:2,

wherein the encoded fragment comprises amino acid residues 5-43 of SEQ ID NO:2 and binds to NIMA

32. (New) An isolated nucleic acid molecule encoding a fragment of a Pin1 polypeptide, which Pin1 polypeptide consists of amino acid residue 1-163 of SEQ ID NO:2, wherein the encoded fragment comprises amino acid residues 59-163 of SEQ ID NO:2 and has peptidyl prolyl isomerase activity.

33. (New) An isolated nucleic acid molecule encoding a Pin1 polypeptide consisting of:

a WW domain consisting of amino acid residues 5-43 of SEQ ID NO:2 or a functional fragment thereof that binds to NIMA; and
a PPIase domain having peptidyl prolyl isomerase activity.

34. (New) An isolated nucleic acid molecule encoding a Pin1 polypeptide consisting of:

a PPIase domain consisting of amino acid residues 59-163 of SEQ ID NO:2 or a functional fragment thereof that has peptidyl prolyl isomerase activity; and
a WW domain that binds to NIMA.

35. (New) A vector comprising the isolated nucleic acid molecule of claim 6, 20, 31, or 32.

36. (New) A host cell comprising the vector of claim 35.